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DATE MAILED: 06/20/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

30428 7590 0620/2008
STMICROELECTRONICS, INC.
MAIL STATION 2346
1310 ELECTRONICS DRIVE
CARROLLTON, TX 75006

PROPAGATION

EXAMINER					
TUCKER, WESLEY J					
ART UNIT	PAPER NUMBER				
2624	•				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.
09/927,558	08/10/2001	George Q. Chen	01-LJ-033 6217
TITLE OF INVENTION:	METHOD AND APPA	RATUS FOR RECOVERING DEPTH USING MULTI-I	PLANE STEREO AND SPATIAL

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/22/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used f correspondence includir d below or directed oth ions.	or transmitting the ISS og the Patent, advance of nerwise in Block 1, by (
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
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CARROLLTON	, TX 75006								(Depositor's name)	
									(Signature)	
									(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN		NTOR AT		ATTORNEY DOCKET NO.		CONFIRMATION NO.	
09/927,558	08/10/2001		George Q. Chen		-		01-LJ-033		6217	
TITLE OF INVENTION PROPAGATION	ON: METHOD AND							SPATL		
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE PRE	V. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE	
nonprovisional	NO	\$1440	\$300		\$0		\$1740		09/22/2008	
EXAM	INER	ART UNIT	CLASS-SUBCLASS							
TUCKER, V	WESLEY J	2624	382-154000	_						
1. Change of correspondence address or indication of "Fee Address" (3 CFR 1.563). Change of correspondence address (or Change of Correspondenc Address form PTO/SB/122) attached. Tee Address indication or "Fee Address" Indication form PTO/SB/12; Rev 03-02 or more recent) attached. Use of a Custom Number is required.			(1) the names of u or agents OR, alter	of a single firm (having as a member a ricey or agent) and the names of up to tent attorneys or agents. If no name is						
(A) NAME OF ASSIC	ess an assignee is ident n in 37 CFR 3.11. Comp BNEE	ified below, no assignee oletion of this form is NC	e data will appear on the order of the order	ne patent. an assign	STATE OR CO	DUNT	RY)			
Please check the appropri	ate assignee category or	categories (will not be p	orinted on the patent):	Indiv	idual 🚨 Cor	porati	on or other private gr	up enti	ty 🚨 Government	
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Authorized Signature				Е	Date					
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This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu- irginia 22313-1450. DC 13-1450.	CFR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will variden, should be sent to the ONOT SEND FEES OR	ion is required to obtain 1.1.4. This collection is y depending upon the he Chief Information O COMPLETED FORM	or retain : s estimate ndividual fficer, U.S S TO THI	a benefit by th d to take 12 m case. Any con S. Patent and T IS ADDRESS.	e publ inutes nments radem SENI	ic which is to file (an to complete, includir s on the amount of ti- nark Office, U.S. Dep O TO: Commissioner	by the g gathe ne you artment for Pate	USPTO to process) ring, preparing, and require to complete of Commerce, P.O. ents, P.O. Box 1450,	

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STMICROELE	CTRONICS, INC.	TUCKER, WESLEY J			
MAIL STATION			ART UNIT	PAPER NUMBER	
1310 ELECTRONICS DRIVE CARROLLTON, TX 75006			2624 DATE MAILED: 06/20/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1019 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1019 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)			
09/927,558	CHEN, GEORGE Q.			
Examiner	Art Unit			
WESLEY TUCKER	2624			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to amendment filed 2-14-08.
- The allowed claim(s) is/are 1-29.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the:
 - Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received:

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
 - Paper No./Mail Date 8-17-05
- ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

Application/Control Number: 09/927,558 Page 2

Art Unit: 2624

DETAILED ACTION

Response to Amendment

 Applicant's amendment filed February 14th 2008 has been entered and made of record.

- Applicant has amended claims 1, 12, 18 and 29. Claims 1-29 are pending.
- Applicant's remarks in view of the newly presented amendments have been fully considered and are found to be persuasive. Claims 1-29 are accordingly allowed.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jose Gutman, Reg. No. 35,171 on May 7th, 2008.

Claim 18 should be amended as follows. In line 1 of claim 18, insert the term "non-transitory" before the phase "computer readable medium" so that the claim reads as follows:

"A non-transitory computer readable medium including computer instructions..."

Application/Control Number: 09/927,558 Page 3

Art Unit: 2624

Allowable Subject Matter

Claims 1-29 are allowed.

The following is an examiner's statement of reasons for allowance:

Applicant has amended the independent claims 1, 12 and 18 to include the features of:

"determining 3-D depth of the plurality of pixels in the base image by contemporaneously matching image features between three or more relative images of a scene by matching ... and wherein each of the three of more images includes at least an overlapping portion of the scene relative to each other, wherein the at least three relative views of the scene are situated in a non-linear arrangement relative to each other and are further oriented in non-parallel planes relative to each other".

The reference previously cited to Chen does not teach or fairly suggest the process of contemporaneously matching the image features between three or more of the relative images and fails to teach the specific way in which the image planes are arranged non-linearly and non-parallel. Applicant's remarks explain the differences in the manner in which the present invention operates. See pages 13-17 of the Applicant's remarks. No other found prior art of record teaches the specific method that is now claimed to matching three or more image contemporaneously. Independent

Application/Control Number: 09/927,558

Art Unit: 2624

claims 1, 12 and 18 and all subsequent corresponding dependent claims are accordingly allowed.

With regard to independent claim 29, applicant has amended the claim to
overcome the previous 101 rejection by adding language to enable the creation of a
concrete and tangible result. The 101 rejection is withdrawn and Claim 29 is
accordingly allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Contact Information

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to WESLEY TUCKER whose telephone number is (571)272-7427. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Bella can be reached on 571-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/927,558 Page 5

Art Unit: 2624

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Wes Tucker/ Examiner, Art Unit 2624 /Matthew C Bella/ Supervisory Patent Examiner, Art Unit 2624